

Super Fast Recovery Diode

RFN20NS3S

Serise

Standard Fast Recovery

Applications

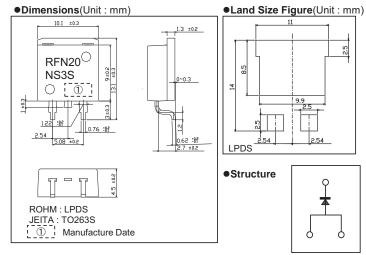
General rectification

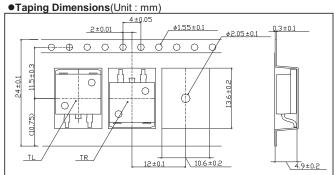
Features

- 1)Low switching loss
- 2)High current overload capacity

Construction

Silicon epitaxial planer type





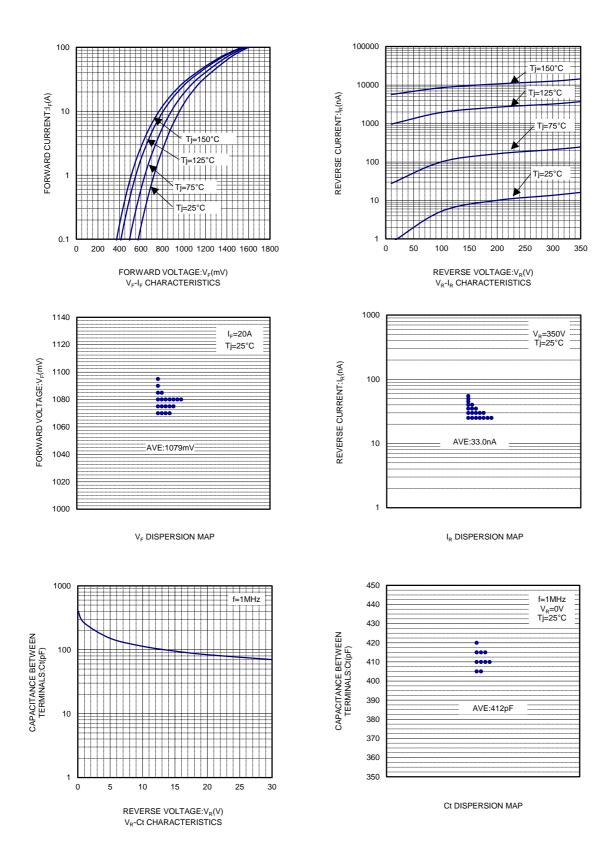
● Absolute Maximum Ratings(Tc=25°C)

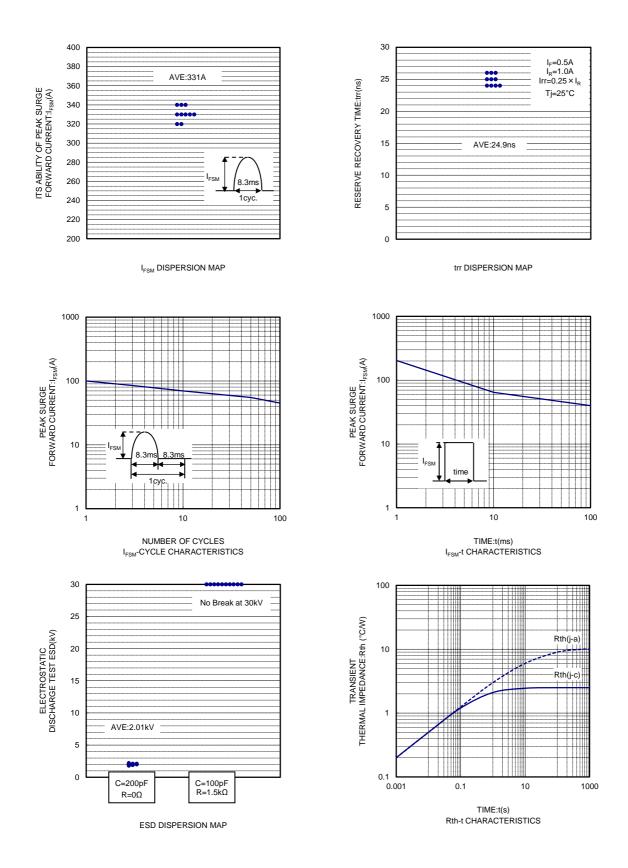
Parameter	Symbol	Conditions	Limits	Unit	
Repetitive peak reverse voltage	V_{RM}	Duty≦0.5	350	V	
Reverse voltage	V_R	Direct voltage	350	V	
Average rectified foward current	lo	60Hz half sin wave , Resistive load	Tc=71°C	20	А
Forward current surge peak	I _{FSM}	60Hz half sin wave , Non-repetitive at Tj=25°C (*1)		25°C ^(*1) 100	
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

(*1) 1-3pin common circuit

●Electrical Characteristics(Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V _F	I _F =20A	_	1.1	1.35	V
Reverse current	I _R	V _R =350V	_	0.05	10	μΑ
Reverse recovery time	trr	I _F =0.5A,I _R =1A,Irr=0.25×I _R	_	25	35	ns
Thermal resistance	Rth(j-c)	Junction to case	_	_	2.5	°C/W





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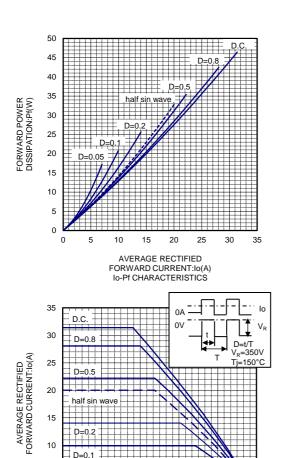
5 0

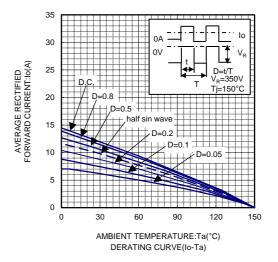
0

30

CASE TEMPERATURE:Tc(°C) DERATING CURVE(Io-Tc)

150





Notes

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